

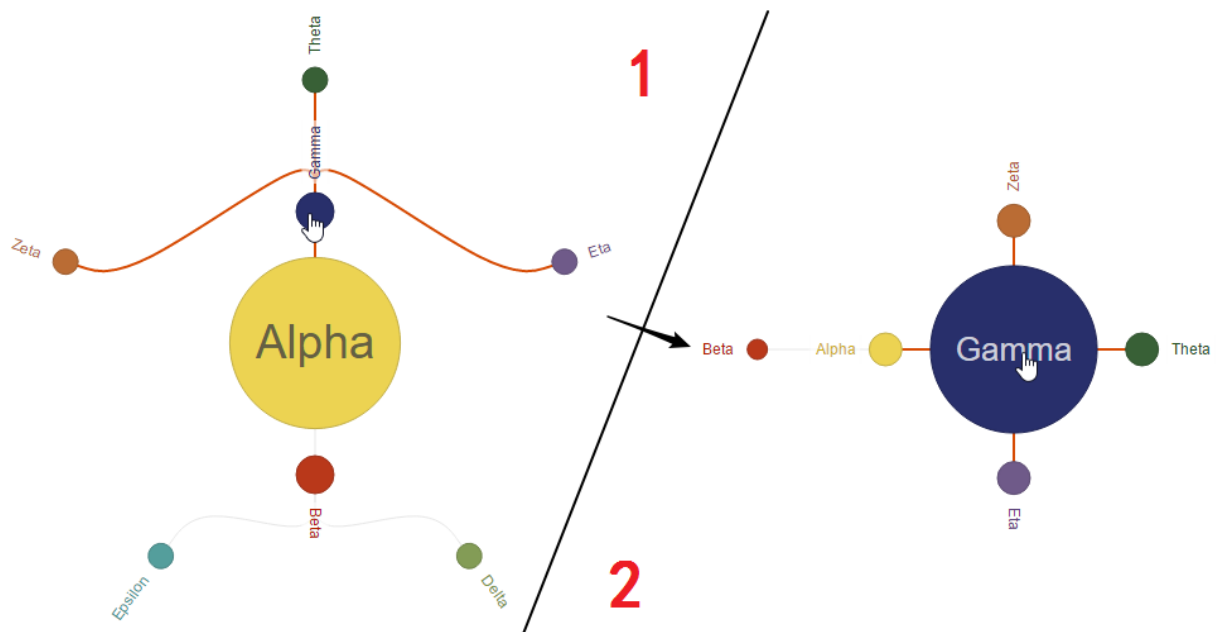
# Weekly Report of the 11th week

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2017/05/14

## Done

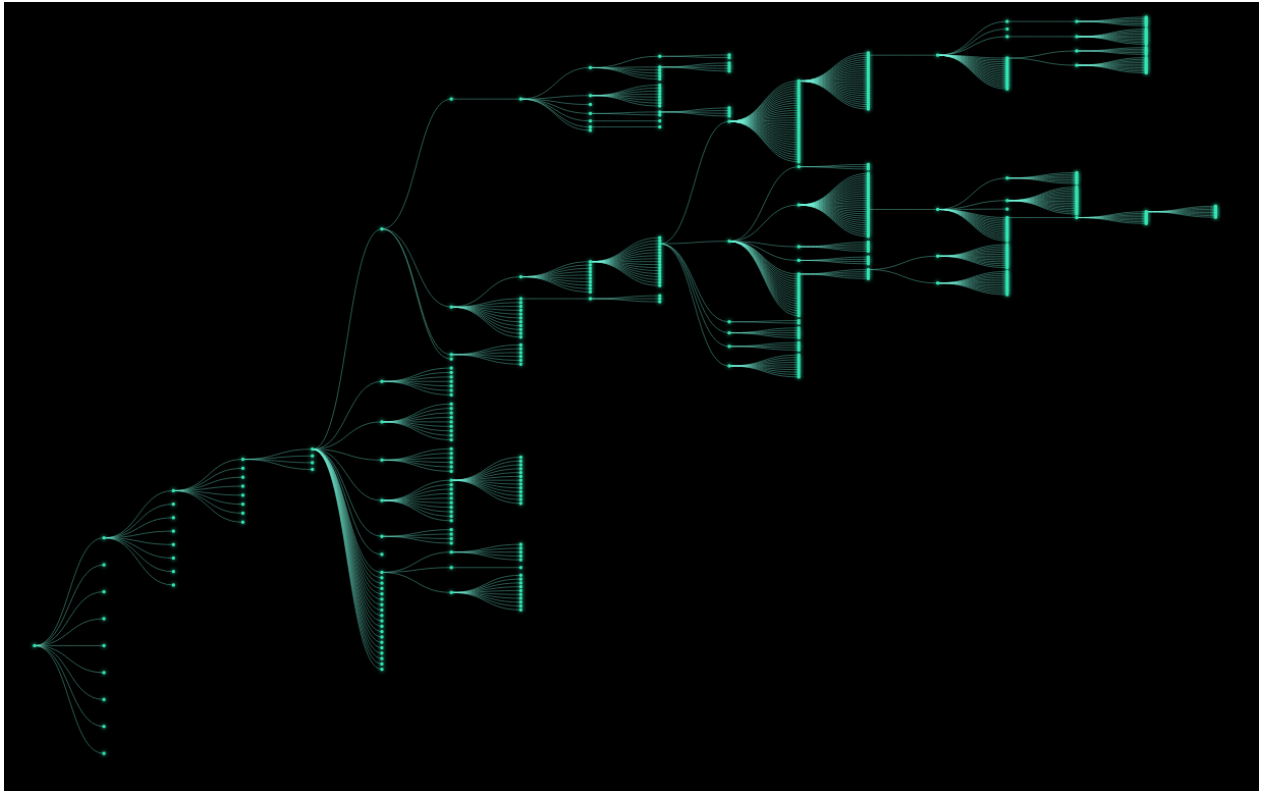
1. **Monday:** To create the ego-centric layout, I did some research, and find that there is a JavaScript library called `d3plus`, which impletes the ego-centric layout with some interaction. When we click on some node, it will transfer to the layout which focuses on the clicked node. I integrated it into our system left some tasks to be done tomorrow.



2. **Tuesday:**

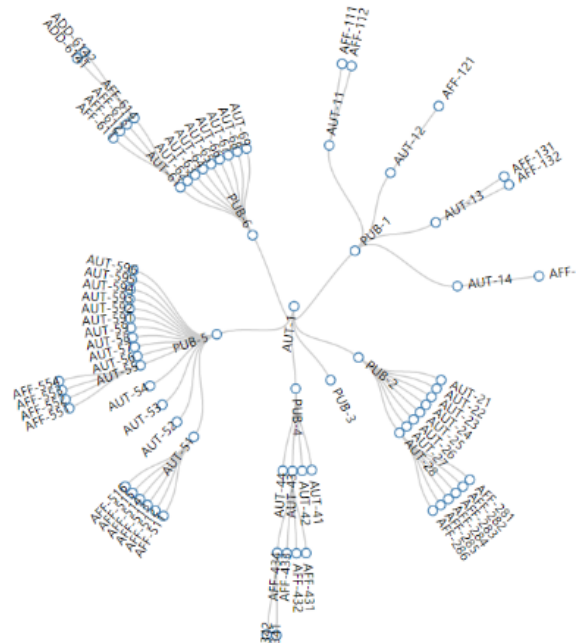
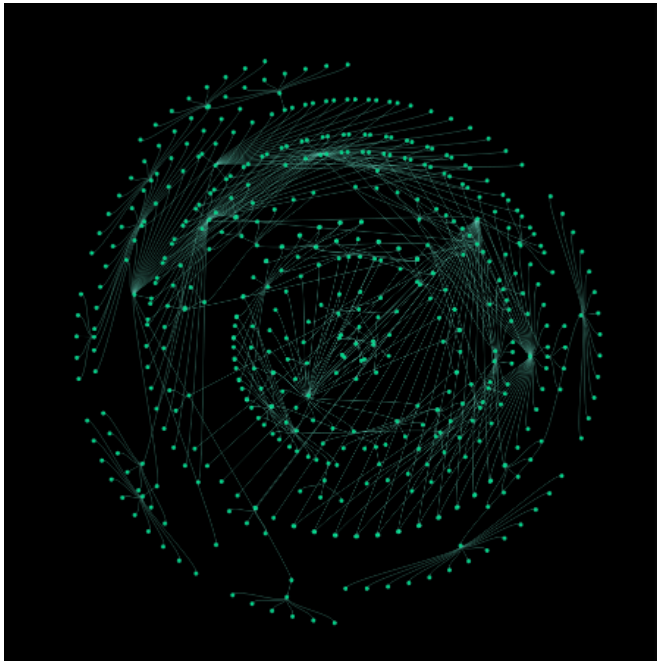
I found that the `d3plus` plugin has low customization. So it is not suitable for our project. I asked Fangzhou for some other library and he said `d3.js` has radial tree layout which is same to the ego-centric layout. So I tried to find some demos.

Another thing I have done today is that I implemented an algorithm which can extract a tree structure from a graph with a specified root.



### 3. Wednesday:

I found a radial tree layout demo and tried to import this demo into our project but I found the algorithm of the demo is not suitable for us. It would cause many cross between edges. I tried to conceive an algorithm which would transfer the tree layout to the radial tree layout without any cross.



### 4. Thursday:

In the morning, I went to the college to deal with my application of the scholarship.

In the afternoon, we introduced our meteorological visualization system and explained our AR+AI graph visualization program for the students from Singapore.



#### 5. Friday:

In the afternoon, I tried to adjust the layout algorithm but still failed. Some bugs remained to be fixed.

#### 6. Saturday:

I began to help accomplish the HuaWei. I am assigned to accomplish the APIs of **selector**. I helped them the merge their code and build a project on Coding.net.

## To do

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1. Help the accomplish the API of cytoscape
2. Try to adjust the ego-centric layout algorithm